# **USS STUMP (DD-978)**

# SEMAT I SHELL CONDITION ASSESSMENT SURVEY

## **INTERIOR AREAS**

11/26/01 TO 12/01/01 -- 12/17/01 TO 12/21/01



PREPARED BY
SUPERVISOR OF SHIPBUILDING CONVERSION
AND
REPAIR
PORTSMOUTH, VIRGINIA
12/21/01

4646 WITCHDUCK ROAD VIRGINIA BEACH, VIRGINIA. 23455-6215 PHONE: 757-490-5000 FAX: 757-490-5027

**26 NOVEMBER 2001** Serial # 1697BF-044

Q.E.D. Systems, Inc. was tasked by the Supervisor of Shipbuilding Conversion and Repair, USN (SPORT) Portsmouth, VA to conduct an Ultrasonic Thickness (U/T) Survey of specific locations on board USS STUMP (DD-978) during the period of 26 November 2001 to 01 December 2001 / 17 December 2001 to 21 December 2001.

The survey was conducted by Francis J. (Joe) LaRock II, Certified Level 1 on 9 March 2001.

The instrument used was a Krautkramer Branson, Model DM2-TC

Serial Number: 00N3V8

Calibration Date: 22 February 2001

Probes Used: TC 560

> FH2E KBA 525

I have reviewed the results of the survey and approved of the findings. The discrepancies have been recorded on MAF's and are included in this report.

> Francis J. LaRock Certified Level II 12/14/01

## **USS STUMP (DD-978)**

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#### <u>USS STUMP (DD-978)</u> SHELL CONDITION ASSESSMENT SURVEY, INTERIOR AREAS.

A SEMAT I UNDERWATER HULL AND SUPPORTING STRUCTURE SURVEY OF INTERIOR AREAS WAS CONDUCTED ON BOARD **USS STUMP (DD-978)** FROM 11/26/01 TO 12/01/01 AND 12/17/01 TO 12/21/01 AT UNITED STATES MARINE'S NORSHIPCO YARD.

THE SURVEY WAS CONDUCTED IN ACCORDANCE WITH HULL STRUCTURE MRC 1102 USING A DELMHORST BD 2100 MOISTURE METER AND A KRAUTKRAMER BRANSON MODEL DM2TC ULTRASONIC TEST INSTRUMENT SERIAL NO.00NV8 CALIBRATION DUE DATE 02/22/02.THE PROBES USED WERE KRAUTKRAMER BRANSON'S TC/560, FH2E AND KBA 525.

USS STUMP IS CURRENTLY IN A DRYDOCK AVAILIBILITY AND UNDERGOING MAJOR REPAIRS.

HISTORIC AREAS OF CORROSION ON (**DD-963**) CLASS SHIPS WERE INSPECTED AND NOTED. THE SURVEY RESULTS SECTION CONTAINS A TABLE OF UNSATISFACTORY AREAS WITH THE (JSN'S) FROM THIS SURVEY AND (CSMP JSN'S) PREVIOUSLY SUBMITTED. A MATERIAL CONDITION ANALYSIS FORM (MCA) WAS SUBMITTED FOR AREAS WHERE NO WORK WAS REQUIRED.

### USS STUMP (DD-978) STRUCTURAL INSPECTION RESULTS

#### UNSATISFACTORY AREAS

LOCATION	AREA	RESULTS
(6-506-0-E) STEERING GEAR ROOM	STBD SIDE BETWEEN WF	SALT CORROSION ON SHELL
JSN-P016	(309-312) BETWEEN	PLATE FROM LEAKING
	STRINGERS (7-8)	VALVE
(6-488-3-A) REEL STOREROOM	BILGE AREA	APPROXIMATELY 80 SF OF
CSMP/JSN-P019		SURFACE RUST.BOTTOM
		RUNG OF LADDER MISSING
(6-476-1-A) SPECIAL CLOTHING	ENTIRE BILGE AREA	SURFACE RUST/HEAVY
STOREROOM.		PAINT SEPARATION
CSMP/JSN-P019	TROMAN AND COMMENT	TRAPPED WATER.
(6-464-3-Q) NO. 2 HPAC ROOM	FROM MARGIN PLATE	DETERIORATED STRINGERS
CSMP/JSN-P019	TO OVERHEAD	HULL DENTED
( <b>5-300-01-E</b> ) MAIN ENGINE ROOM 2 CSMP/JSN-A306	PORT SIDE FROM BHD	DETERIORATED STRINGERS
CSWF/JSN-A300	(300) TO WEB FRAME (316) MARGIN PLATE TO 4 <sup>TH</sup>	
	STRINGER	
( <b>5-300-0-E</b> ) MAIN ENGINE ROOM 2	PORT SIDE AFT OF	CORROSION ON SHELL
CSMP/JSN-0120	BHD(300)UNDER S/W	PLATE.
	COOLING PUMP FOR NO.2	12.112.
	GTG.	
( <b>5-300-0-E</b> ) MAIN ENGINE ROOM 2	FROM BHD (300)TO WEB	DETERIORATED STRINGERS
CSMP/JSN-A305	FRAME (324)	
( <b>5-300-0-E</b> ) MAIN ENGINE ROOM 2	CENTER LINE BHD	DAMAGED LAGGING AND
CSMP/JSN-Y013	(346)	CORROSION ON BHD.
(5-220-0-E) AUXILIARY MACHINERY	UPPER LEVEL /	HOLE IN DECK UNDER
ROOM 1	APPROXIMATELY 10 FT	HANDRAIL SUPPORT.
CSMP/JSN-P014	PORT OF CENTER LINE	
(5-174-0-E) MAIN ENGINE ROOM 1	PORT UPPER LEVEL / 4 <sup>TH</sup>	DISTORTED STRINGER
CSMP/JSN-A256	STRINGER FROM DECK AT	LARGE DENT IN HULL
(5 174 0 E) MADI ENCINE DOOM 1	WEB FRAME (180) STARBOARD SIDE 1 <sup>ST</sup>	STRINGER IS HOLED.
(5-174-0-E) MAIN ENGINE ROOM 1 CSMP/JSN-A255	STRINGER FROM MARGIN	STRINGER IS HOLED.
CSIVII / JUST 1 1233	PLATE AT BHD (220)	
(3-437-2-M) SMALL ARMS	BILGE POCKET FROM BHD	APPROXIMATELY 30 SF OF
MAGAZINE.	(437) TO WEB FRAME (452)	RUST AND PAINT
JSN-P018		SEPARATION.
( <b>3-426-1-E</b> ) GAS TURBINE	BETWEEN BHD (426) AND	(5 X 4 T-BEAM) IS HOLED
GENERATOR ROOM NO. 3	WEB FRAME (434) FROM	WHERE IT MEETS 1 <sup>ST</sup>
JSN-P017	MARGIN PLATE TO 2 <sup>ND</sup>	STRINGER AFT OF BHD (426).
	STRINGER	1 <sup>ST</sup> STRINGER FROM MARGIN
		PLATE IS HOLED
		APPROXIMATELY 2 LF
		FORWARD OF WEB FRAME
		(434). SHELL PLATE IS SEVERELY THINNED AT 1 <sup>ST</sup>
		STRINGER FWD OF WEB
		FRAME (434)
		TRAIVIE (454)

### USS STUMP (DD-978) SATISFACTORY AREAS

LOCATION	SPACE DESIGNATION	MCA SUBMITTED
3-28-01-Q	SONAR EQUIPMENT ROOM 3	YES
3-58-1-M	W/P MAGAZINE NO.1	YES
3-58-2-M	W/P MAGAZINE NO.2	YES
3-62-01-M	5''/54 MAGAZINE NO.1	YES
3-76-1-M	POWDER MAGAZINE NO.1	YES
3-76-2-M	POWDER MAGAZINE NO.2	YES
3-127-0-Q	I/C ROOM NO.1	YES
3-127-2-L	PASSAGEWAY	YES
3-138-3-L	PASSAGEWAY	YES
3-138-6-L	PASSAGEWAY	YES
3-146-0-L	CREW BERTHING	YES
3-260-01-A	SUPPLY DEPARTMENT GENERAL STORES	YES
3-346-02-L	CREW BERTHING	YES
3-382-1-L	CREW W/R W/C SHOWER	YES
3-382-2-A	SUPPLY DEPARTMENT STOREROOM	YES
3-394-1-L	CREW BERTHING	YES
3-426-2-A	STOREROOM	YES
3-482-0-M	5''/54 PROJECTILE MAGAZINE	YES
3-491-1-M	W/P MAGAZINE NO.3	YES
3-491-2-M	W/P MAGAZINE NO.4	YES
3-494-0-M	POWDER MAGAZINE NO.3	YES
4-28-0-T	ACCESS TRUNK	YES
4-34-0-Q	SONAR EQUIPMENT ROOM NO.4	YES
4-58-0-E	DOME EQUIPMENT ROOM	YES
5-34-0-Q	FORWARD EDUCTOR ROOM	YES
5-94-0-C	TOMAHAWK COMPUTER ROOM	YES
5-118-0-C	VERTICAL LAUNCH CONTROL ROOM	YES
5-260-01-E	AUXILIARY MACHINERY ROOM NO.2	YES
6-28-0-T	DOME ACCESS TRUNK	YES
6-346-0-Q	SHAFT ALLEY/SEWAGE PLANT NO.2	YES
6-464-4-A	STOREROOM	YES
6-476-2-A	STOREROOM	YES
6-482-2-A	STOREROOM	YES

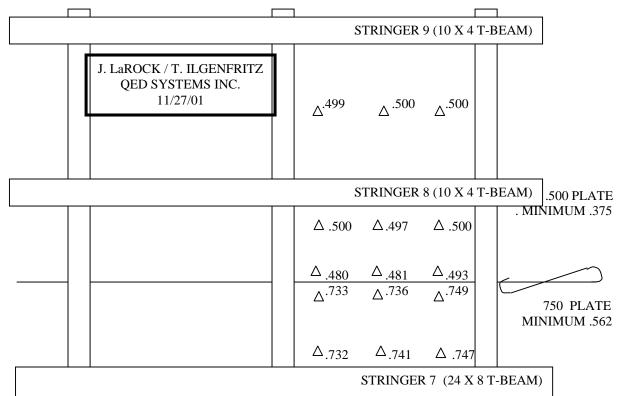
# **MATERIAL ASSESSMENT FORM**

ITEM NUMBER								SHIP	USS STUMP (DI	D-978	)
SYSTEM SHELL & SUPPORT	INC STRUCTURE		SWBS 11011	EI			APL	V	-		IN N/L
EQUIPMENT NAME	ING STRUCTURE	_ 110	IDENT/SERIAL		A100	LOCAT	TON		SYSTEMS rk center	JS	SN IN/L
HULL STRUCTURE	1102XY	DDODLEM	CTATUS	11		6-506-0-E ERO2				P016 Eoc	
		PROBLEM S						CATEGOR			EOC
1. SAT - SATISFACTOR 2. UNSAT - UNSATISFAC 3. TNA - TEST NOT ATT 4. TNC - TEST NOT COM	T <mark>ORY</mark> EMPTED MPLETED	2. # 3. T 4.S	C - CORRECTED A - AWAITING PARTS F - AWAITING TECH ASS G - SHIP'S FORCE	1. S - PERSONNEL SAFETY 2. Z - EQUIPMENT SAFETY 3. H – HARDWARE				4. D - DOWN 5. L - LIMITED		.9	
5. NOB - EQUIPMENT NO TYPEAVAILABILITY	WHEN TO BE		STATUS	<u> </u>	CAUSE				DEFERRAL REASON		
1. DEPOT	ACCOMPLISH 1. IMMEDIAT		1. OPERATIONAL		1. ABNORMA	L ENVIRONM	MENT		1. S/F BACKLOG/OPERATION	ONAL PRIC	ORTY
2. IMA 3. TECH ASSIST 4. SHIP'S FORCE	2. PRIOR TO UNDERWAY  3.PIROR TO DEPLOYMEN	NEXT	2. NON-OPERATIONA 3. REDUCED CAPABIL 4. NOT APPLICABLE		LACK OF K     COMMUNI	NOWLEDGE CATION PRO TE INSTRUC TE DESIGN	BLEMS CTION/PROCEDU	LACK OF MATERIAL     NO FORMAL TRAINING ON THE FORMAL TRAINING INADEQUEUNT SOLUTION TO THE STATE OF THE	UATE IN TH	IIS	
5. SFWL	4. DURING PO DEPLOYMENT AVAILABIL	OST			8. NOT APPLI				7. NOT AUTHORIZED FOR S/F 8. FOR S/F OVERHAUL OR AVA LIST 9. LACK OF TECHNICAL DOCUM 10. OTHER OR NOT APPLICABL	ACCOMPLIS ILABILITY \ MENTATION	WORK
MAN HRS EXPENDED	MAN HR	S REMAINING 80		COMPLET	ED ACTION TAI	KEN		S/F	MANHOURS	P	RIORTY
SAFETY HAZARD: 1. SERIOUS - CORRECT 2. SERIOUS - SUSPENSI 3. SERIOUS - WAVIER C 4. SAFETY ITEM - MINO 5. COMBUSTIBLE MATE	ON OF EQUIPMENT/ OF EQUIPMENT/SYST R RIAL	BLE /SYSTEM/SPAC FEM	CE REQUIRED	2. MAINTE 3. MAINTE 4. CANCEL 5. MAINTE 6. NONE O	NANCE ACTION ( NANCE ACTION ( NANCE ACTION ( LED - DEFERRAL NANCE ACTION ( OF THE ABOVE, D	COMPLETED COMPLETED WILL BE RE COMPLETED ESCRIBE IN	: REQUIRED PAR : NO PARTS REQ MOVED FROM C : 3-M CAPABILIT REMARKS/DESC	RTS NOT DRAWN JUIRED SMP Y UTILIZED RIPTION SECTIO	N	2. 3. 4.	MANDATORY ESSENTIAL HIGHLY DESIRABLE DESIRABLE
									STEERING GEAR ROC		
CORROSION WA									CAUSE FOR CORROS	ION	
IS SALT WATER APPROXIMATE		ALVE (3-5	510-1). U/I RE/	ADINGS	WERE SA	HISFAC	TORY SE	E DRAWI	NG.		
APPROXIMATE	LT 12 SF.										
RECOMMENDE	D DEDVIDS:										
	_	CLEAN T	O BARE META	AL APPR	ROXIMATE	LY 12	SF, PRIM	E AND PA	INT. FIX LEAKING	VALVE	
SSPORT C221 I	POC: J. BRUC	KNER (7!	57) 396-4001	EXT 21	86, TPOC	: J. Laf	ROCK QEI	O SYSTEM	S INC. (757) 490-5	047	
CSMP SUMMAR SHELL PLAT		DED BET	TWEEN WF	(509-5	12)				TEST# MRC 1102/1		
ROOT CAUSE/AM H1				(000 012)					STEP# 1,2,3,4 & 5		
SYSTEM LEVEL IN	MPACT:										
PART NO.			NOMEMCLAT	URE			QTY	NSN			COST
1											
2											
3											
4											
5											
6											
FIRST CONTAC TOMS		ATE R2	SECON BEARD	D CONTACT RATE			RATE HT2				
ASSESSOR / ACT J. LaROCK/ T.	/ TECH ID#				TI	)	TL	LOGI	STICIAN		TSP
J. Lanoun I.	LOLIMIKITA	7FD 213	I LIVIO IIVO.				1				

### <u>USS STUMP (DD-978)</u> <u>STEERING GEAR ROOM ((6-506-0-E)</u>

STBD SIDE

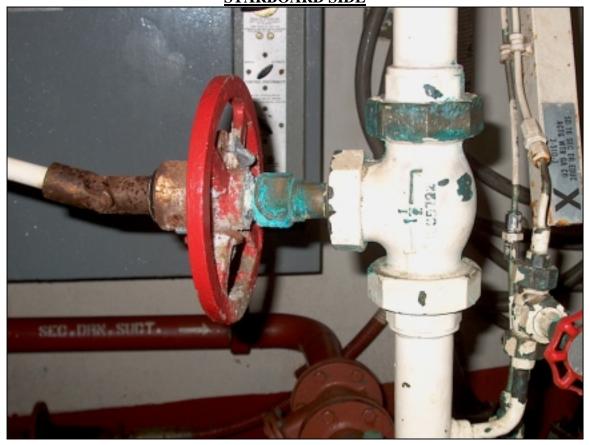
BHD (506) WEB FRAME (509) (512)





SHELL PLATE BETWEEN WEB FRAMES (509-512) AND STRINGERS (7-8) U/T READINGS WERE SATISFACTORY SEE DRAWING

# USS STUMP (DD-978) STEERING GEAR ROOM (6-506-0-E) STARBOARD SIDE



SALT WATER EDUCTOR VALVE (3-510-1) ROOT CAUSE OF CORROSION ON SHELL PLATE.

#### USS STUMP (DD-978)

THE FOLLOWING PICTURE PAGES
AND DRAWINGS ARE WORK ITEMS
THAT WERE PREVIOUSLY ENTERED
INTO THE CONTROLLED SHIPS
MAINTAINANCE PROGRAM
(CSMP)

# **MATERIAL ASSESSMENT FORM**

ITEM NUMBER								SHIP			
0.07514		V ===		1 -			1		USS STUMP (DD	<u> </u>	
SYSTEM SHELL & SUPPORTIN	IG STRUCTURE	110	wвs 11011	E	A100		APL	X-9	SYSTEMS	RIN	N/L
EQUIPMENT NAME HULL STRUCTURE 11	N2XY		IDENT/SERIAL	N/A	LOCATION 6-488-3-				RK CENTER ERO2	JSN	P019
EQUIPMENT STATUS	OZXI	PROBLEM STA	ATUS	IV/A			0-400-3-A	CATEGORY			EOC
1. SAT - SATISFACTORY 2. UNSAT - UNSATISFACTO 3. TNA - TEST NOT ATTEM 4. TNC - TEST NOT COMPL 5. NOB - EQUIPMENT NOT	IPTED .ETED	2. A - 3. T - 4.S -	CORRECTED  AWAITING PARTS  AWAITING TECH ASSIS  SHIP'S FORCE  ORRECTED PROBLEMS	5T*	1. S - PERSON 2. Z - EQUIPM 3. H – HARD\	ENT SAFET			4. D - DOWN 5. L - LIMITED		.9
TYPEAVAILABILITY	WHEN TO BE ACCOMPLISHED		STATUS		CAUSE				DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	1. IMPEDIATE: 2. PRIOR TO NE UNDERWAY 3.PIROR TO N DEPLOYMENT 4. DURING POS DEPLOYMENT AVAILABILITY	Y EXT T	OPERATIONAL     NON-OPERATIONAL     REDUCED CAPABILI     NOT APPLICABLE	ΤΥ	1. ABNORMAL ENVIRONMENT 2. MANFACTURER/INSTALLATION DEFECTS 3. LACK OF KNOWLEDGE 4. COMMUNICATION PROBLEMS 5. INADEQUATE INSTRUCTION/PROCEDURE 6. INADEQUATE DESIGN 7. NORMAL WEAR AND TEAR 8. NOT APPLICABLE 9. LACK OF FACILITIES CHOOL PRACT 6. LACK OF FACILITIES/CAPABIL 1. NOT AUTHORIZED FOR S/F A 1. LOT 1. LACK OF TECHNICAL DOCUM 10. OTHER OR NOT APPLICABLE					HIS EQUIPME ATE IN THIS TICAL TRAIN LITIES CCOMPLISHI LABILITY WO ENTATION	ENT ING MENT
MAN HRS EXPENDED  2	MAN HRS	REMAINING 200		COMPLE	TED ACTION TAK	EN	10	S/F	MANHOURS	PRI	ORTY
SAFETY HAZARD: 1. SERIOUS - CORRECT AS 2. SERIOUS - SUSPENSION 3. SERIOUS - WAVIER OF 4. SAFETY ITEM - MINOR 5. COMBUSTIBLE MATERIA	N OF EQUIPMENT/SY EQUIPMENT/SYSTEI AL	E YSTEM/SPACE M		2. MAINTI 3. MAINTI 4. CANCEI 5. MAINTI 6. NONE (	ENANCE AC LON CO ENANCE ACTION CO ENANCE ACTION CO LLED DEFENDAL ENANCE ACTION CO DE THE ABOVA DE	OMPLETED: OMPLETED: VILL BE REI OMPLEVED: SCRIBE W	REQUIRED PAR NO PARTS REQ VOVED FROM C 8-M CA (ABILI KEM, RK VDES)	ITS NOT DRAWN I UIRED SMP Y UTILITEL RIPTION SECTION	ROM SUPPLY REEL STOREROOM N	2. E 3. H D 4. D	IANDATORY SSENTIAL IIGHLY ESIRABLE ESIRABLE
APPROXIMATELY										J. I	
ALLIKOMIWATEE	00 31 01 3	OIN ACL I	KOST AND TA	11111 31			JOIN LAL		5 TO WISSING.		
							<del>`                                    </del>		<u> </u>		
						$\neg$	$\mathcal{C}\mathcal{M}$	<del>ID</del>			
RECOMMENDED RECOMMEND SH		CLEAN AP	PROXIMATEL	Y 80 S	SF TO BARI	E META	AL PRIME	AND PAI	NT AREA. RECOMME	END	
REPLACING LADDE	R.										
		(NER (75)	7) 396-4001 I	EXT 21	86, TPOC:	J. LaF	ROCK QEI	) SYSTEM	S INC. (757) 490-50	047	
CSMP SUMMAR			ICT AND DAIL	VIT E A I	LUDE LAD	יסבס פ		ALCCINIC	TEST# MRC 1102/1		
ENTIRE BILGE A		RFACE RU	JST AND PAII	VI FAI	LURE. LAD	DEK K	CUNG 15 P	VIISSING	STEP#		
H1	LII IOATION.								1,2,3,4 & 5		
SYSTEM LEVEL IMP	PACT:								•		
PART NO.			NOMEMCLATU	RE			QTY	NSN			COST
1											
2											
3											
4											
5											
6											
FIRST CONTACT TOMS	RA <sup>*</sup> MR		SECOND BEARDE		TACT		RATE HT2	Pl	HONE	1	
ASSESSOR / ACT / J. LaROCK/ T. IL		ED SYSTI	EMS INC.		TD		TL	LOGIS	STICIAN		TSP

# USS STUMP (DD-978) REEL STOREROOM NO. 1 (6-488-3-A)



CORROSION ON SHELL PLATE FORWARD OF BHD (506)



CORROSION ON SHELL PLATE AT WEB FRAME (494)

# USS STUMP (DD-978) REEL STOREROOM NO. 1 (6-488-3-A)



BOTTOM LADDER RUNG IS MISSING.

# **MATERIAL ASSESSMENT FORM**

ITEM NUMBER								SHIP			
SYSTEM		II E	SWBS	EI	r		APL		USS STUMP (DD	-978) RI	
SHELL & SUPPORT	TING STRUCTURE		11011		A100		AFL	X-9	SYSTEMS	Ki	N/L
EQUIPMENT NAME HULL STRUCTURE	1102XV		IDENT/SERIAL	ERIAL N/A			ion 6-476-1-A	WOF	RK CENTER ERO2	JS	N P019
EQUIPMENT STATUS	1102/1	PROBLEM S	STATUS	IN/A			0-470-1-A	CATEGORY	LROZ		EOC
1. SAT - SATISFACTOR 2. UNSAT - UNSATISFACTOR 3. TNA - TEST NOT AT 4. TNC - TEST NOT CO 5. NOB - EQUIPMENT N	CTORY TEMPTED MPLETED	2. A 3. T 4.S	C - CORRECTED A - AWAITING PARTS - AWAITING TECH ASSI - SHIP'S FORCE NCORRECTED PROBLEMS		1. S - PERSON 2. Z - EQUIPM 3. H – HARDV	ENT SAFET			4. D - DOWN 5. L - LIMITED		.9
TYPEAVAILABILITY	WHEN TO BE	•	STATUS		CAUSE				DEFERRAL REASON		
1. DEPOT 2. IMA 3. TECH ASSIST 4. SHIP'S FORCE 5. SFWL	ACCOMPLISHED   1. IMMEDIATELY   1. OPERATIONAL						ENT LATION DEFECTS BLEMS TION/PROCEDURE TEAR		1. S/F BACKLOG/OPERATIONAL PRIORTY 2. LACK OF MATERIAL 3. NO FORMAL TRAINING ON THIS EQUIPMENT 4. FORMAL TRAINING INADEQUATE IN THIS EQUIPMENT 5. INADEQUATE SCHOOL PRACTICAL TRAINING 6. LACK OF FACILITIES/CAPABILITIES 7. NOT AUTHORIZED FOR S/F ACCOMPLISHMENT 8. FOR S/F OVERHAUL OR AVAILABILITY WORK LIST 9. LACK OF TECHNICAL DOCUMENTATION 10. OTHER OR NOT APPLICABLE		
MAN HRS EXPENDED 2	MAN HRS	REMAINING 100		COMPLET	ED ACTION TAK	EN		S/F	MANHOURS	PR	RIORTY
SAFETY HAZARD:  1. SERIOUS - CORRECT 2. SERIOUS - SUSPENS 3. SERIOUS - WAVIER ( 4. SAFETY ITEM - MINO 5. COMBUSTIBLE MATE	ION OF EQUIPMENT/S OF EQUIPMENT/SYSTI DR ERIAL	LE SYSTEM/SPAC EM	CE REQUIRED	2. MAINTE 3. MAINTE 4. CANCEL 5. MAINTE 6. NONE O	NANCE ACTION CO NANCE ACTION CO LED - DEFERRAL V NANCE ACTION CO IF THE ABOVE, DE	OMPLETED: OMPLETED: VILL BE REI OMPLETED: SCRIBE IN I	PARTS DRAWN FR REQUIRED PARTS NO PARTS REQUII WOVED FROM CSM 3-M CAPABILITY L REMARKS/DESCRIP	NOT DRAWN I RED P ITILIZED TION SECTION	1	2. <b>3.</b> 4.	MANDATORY ESSENTIAL HIGHLY DESIRABLE DESIRABLE
			_						THING ISSUE STORER		IDVEV DUE
TO SEWAGE IN				E WAIE	R IS TRAPP	ED IN	VARIOUS PC	ICKETS. C	JNABLE TO PERFORM	0/1 50	RVEY DUE
TO SEWAGE IN	I THE BILGE. F	AFFROXII	WATELT 60 SF								
DECOMMENDED	DEDAIDC										
RECOMMENDED RECOMMEND SH		MOVE SEV	VAGE/WATER F	ROM BIL	.GE, CLEAN	ENTIRI	E AREA TO E	BARE MET	AL PRIME AND PAINT		
SSPORT C221	POC: J. BRUC	KNER (7	57) 396-4001	EXT 21	86, TPOC:	J. LaF	OCK QED	SYSTEM	S INC. (757) 490-50	)47	
CSMP SUMM	ARY:								TEST#		
TRAPPED SEW	AGE/ WATER/0	CORROS	ION IN BILGE						MRC 1102/1		
ROOT CAUSE/AN H1	MPLIFICATION:								STEP# 1,2,3,4 & 5		
SYSTEM LEVEL I	MPACT:								1,2,3,4 & 3		
PART NO.			NOMEMCLATI	JRE			QTY	NSN			COST
1											
2										Ï	
3											
4											
5											
6								1			
FIRST CONTAC	T RA	ATE	SECONI <b>BEARD</b> I		ACT		RATE	Pl	HONE		
ASSESSOR / ACT		14	BEARDI	_17	TD		HT2 TL	1003	STICIAN	1	TSP
J. LaROCK/ T.		QED SYS	TEMS INC.		10		I L	LOGI	TICIAN		131

### <u>USS STUMP (DD-978)</u> <u>SPECIAL CLOTHING ISSUE STOREROOM (6-476-1-A)</u>



SHELL PLATE FORWARD OF BHD (480) CSMP / JSN-0199



SEWAGE/WATER TRAPPED IN BILGE AFT OF BHD 476

### <u>USS STUMP (DD-978)</u> <u>SPECIAL CLOTHING ISSUE STOREROOM</u>



WATER TRAPPED IN BILGE POCKET. CSMP / JSN-0199

#### **USS STUMP (DD-978)**

THE FOLLOWING PICTURE PAGES
AND DRAWINGS ARE WORK ITEMS
THAT WERE PREVIOUSLY ENTERED
INTO THE CONTROLLED SHIPS
MAINTAINANCE PROGRAM
(CSMP)

## <u>USS STUMP (DD-978)</u> NO. 2 HPAC ROOM (6-464-3-Q)



STRINGER REPAIRS ARE IN PROGRESS IN THIS AREA.  $(CSMP\,/\,JSN-P019)$ 



### <u>USS STUMP (DD-978)</u> <u>NO. 2 HPAC ROOM (6-464-3-Q)</u>



 $5^{\text{TH}}$  STRINGER UP FROM MARGIN PLATE IS REMOVED, NOTE BUCKLE IN SHELL PLATE. (CSMP / JSN P019)



#### **USS STUMP (DD-978)**

THE FOLLOWING PICTURE PAGES
AND DRAWINGS ARE WORK ITEMS
THAT WERE PREVIOUSLY ENTERED
INTO THE CONTROLLED SHIPS
MAINTAINANCE PROGRAM
(CSMP)

### <u>USS STUMP (DD-978)</u> <u>MAIN ENGINE ROOM NO. 2 (5-300-0-E)</u> <u>PORT SIDE</u>



SEA WATER COOLING PUMP FOR NO. 2 GAS TURBINE GENERATOR (CSMP / JSN  $-\,0120)$ 



SHELL PLATE UNDERNEATH FOUNDATION FOR SEA WATER COOLING PUMP

# USS STUMP (DD-978) MAIN ENGINE ROOM NO. 2 (5-300-0-E) STARBOARD SIDE



REPLACEMENT OF  $3^{\rm RD}$  STRINGER FROM MARGIN PLATE BETWEEN WEB FRAME (308-316). (CSMP / JSN - A305)

#### <u>USS STUMP (DD-978)</u> <u>MAIN ENGINE ROOM NO. 2 (5-300-0-E)</u> PORT SIDE



"CONDENSATE CORNER"
THIS AREA IS HISTORICALY PRONE TO CORROSION ON THE (DD-963) CLASS REPAIRS ARE IN PROGRESS (CSMP / JSN-A306)



FIRST STRINGER FROM MARGIN PLATE AT WEB FRAME (308)

# USS STUMP (DD-978) MAIN ENGINE ROOM NO. 2 (5-300-0-E) PORT SIDE



HOLE IN WEB OF 4<sup>TH</sup> STRINGER FROM MARGIN PLATE APPROXIMATELY 2' FORWARD OF WEB FRAME (308) (CSMP / JSN – A306)

# USS STUMP (DD-978) MAIN ENGINE ROOM NO. 2 (5-300-0-E) LOWER LEVEL STARBOARD SIDE



DAMAGED LAGGING ON BHD (346)



TYPICAL VIEW OF BHD (346) AT DECK PLATE LEVEL (CSMP-JSN-Y013)

#### **USS STUMP (DD-978)**

THE FOLLOWING PICTURE PAGES
AND DRAWINGS ARE WORK ITEMS
THAT WERE PREVIOUSLY ENTERED
INTO THE CONTROLLED SHIPS
MAINTAINANCE PROGRAM
(CSMP)

### <u>USS STUMP (DD-978)</u> AUXILIARY MACHINERY ROOM NO. 1 (5-220-0-E)



HOLE IN DECK UPPER LEVEL APPROXIMATELY 10 FT PORT OF CENTER LINE (CSMP / JSN –P014)



#### USS STUMP (DD-978)

THE FOLLOWING PICTURE PAGES
AND DRAWINGS ARE WORK ITEMS
THAT WERE PREVIOUSLY ENTERED
INTO THE CONTROLLED SHIPS
MAINTAINANCE PROGRAM
(CSMP)

### <u>USS STUMP (DD-978)</u> <u>MAIN ENGINE ROOM NO. 1 (5-174-0-E)</u> PORT SIDE / UPPER LEVEL



4<sup>TH</sup> STRIINGER UP FROM UPPER LEVEL DECK AT WEB FRAME (180) (CSMP / JSN-A256)



NOTE BUCKLE IN SHELL PLATING

# USS STUMP (DD-978) MAIN ENGINE ROOM NO. 1 (5-174-0-E) STARBOARD SIDE / LOWER LEVEL



 $1^{ST}$  STRINGER FROM MARGIN PLATE AT BHD (220) CSMP (JSN – A255)



HOLES IN FLANGE OF STRINGER AT WEB FRAME (212) (CSMP / JSN - A257)

# **MATERIAL ASSESSMENT FORM**

ITEM NUMBER						:	SHIP			
		W	11			1		USS STUMP (D		•
SHELL & SUPPORT	TING STRUCTURE 11	10 ESWBS 11011	EIG	A100		APL	X-9	SYSTEMS	Ι'	rin N/L
EQUIPMENT NAME HULL STRUCTURE	1102VV	IDENT/SERIAL			LOCAT		WOI	RK CENTER	-	JSN DO10
EQUIPMENT STATUS		ROBLEM STATUS	N/A			3-437-2-M	CATEGORY	ERO2		P018 Eoc
1. SAT - SATISFACTOR		1. C - CORRECTED		1. S - PERSONN	IEI SAEETY	,		4. D - DOWN		
2. UNSAT - UNSATISFAC 3. TNA - TEST NOT ATT	CTORY	2. A - AWAITING PARTS 3. T - AWAITING TECH A	*****	2. Z - EQUIPME 3. H – HARDV	NT SAFET			5. L - LIMITED		.9
4. TNC - TEST NOT COI 5. NOB - EQUIPMENT NO	MPLETED	4.S - SHIP'S FORCE *UNCORRECTED PROBLE		3.11-11AKDV	VAKE					. 7
TYPEAVAILABILITY	WHEN TO BE	STATUS	IVIS	CAUSE				DEFERRAL REASON		
1. DEPOT	ACCOMPLISHED  1. IMMEDIATELY	1. OPERATIONAL		1. ABNORMAL I				1. S/F BACKLOG/OPERATION	ONAL PRI	ORTY
2. IMA	2. PRIOR TO NEXT	2. NON-OPERATIO	NAL	<ol> <li>MANFACTUR</li> <li>LACK OF KNO</li> </ol>		LATION DEFECTS		<ol> <li>LACK OF MATERIAL</li> <li>NO FORMAL TRAINING ON</li> </ol>	THIS EQUI	PMENT
3. TECH ASSIST	UNDERWAY	3. REDUCED CAPAI	BILITY	<ol> <li>COMMUNICA</li> <li>INADEQUATI</li> </ol>		BLEMS TION/PROCEDURE		<ol> <li>FORMAL TRAINING INADEC EQUIPMENT</li> </ol>	QUATE IN T	HIS
4. SHIP'S FORCE	3.PIROR TO NEXT DEPLOYMENT	4. NOT APPLICABL	E	<ol><li>6. INADEQUATI</li><li>7.NORMAL W</li></ol>		TEAR		<ol> <li>INADEQUATE SCHOOL PRA</li> <li>LACK OF FACILITIES/CAPAE</li> </ol>		AINING
5. SFWL	4. DURING POST			8. NOT APPLICA	ABLE			7. NOT AUTHORIZED FOR S/F 8. FOR S/F OVERHAUL OR AV		
	DEPLOYMENT AVAILABILITY							LIST 9. LACK OF TECHNICAL DOCU		
								10. OTHER OR NOT APPLICAB		
MAN HRS EXPENDED	MAN HRS REMA	AINING 100	COMPLET	ED ACTION TAKE	EN		S/F	MANHOURS	ŀ	PRIORTY
SAFETY HAZARD:		100				PARTS DRAWN FR				1. MANDATORY
1. SERIOUS - CORRECT 2. SERIOUS - SUSPENS	AS SOON AS POSSIBLE ION OF EQUIPMENT/SYSTE	M/SPACE REQUIRED	3. MAINTEI	NANCE ACTION CO	MPLETED:	REQUIRED PARTS NO PARTS REQUIR	RED	FROM SUPPLY		2. ESSENTIAL 3. HIGHLY
4. SAFETY ITEM - MINO						MOVED FROM CSMI 3-M CAPABILITY U			4	DESTRABLE 4. DESTRABLE
5. COMBUSTIBLE MATE		DED CEMAT I LIND	_			REMARKS/DESCRIP		ı MAGAZINE (3-437-2-I	M) DIL	CE DOCKET
								INT SEPARATION.		
	TORY SEE DRAW		D FRAIVIL	3 (440-45)	Z) HA	3 KUST, FIL	AVIFA	INI SEPARATION.	U/ I K	LADINGS
ARE SATISFAC	TORT SEL DRAW	ING.								
RECOMMENDE	D REPAIRS									
	SHIPS FORCE CLE	AN AREA TO BAF	RE METAL	., PRESER\	/E ANI	D PAINT. A	PPROXII	MATELY 30 SF.		
SSPORT C221	POC: J. BRUCKNE	R (757) 396-400	1 EXT 21	86, TPOC:	J. LaF	ROCK (757)	490-50	47		
CSMP SUMMA	ARY:							TEST#		
BILGE POCKET	HAS RUST AND	PAINT SEPARATI	ON.					MRC 1102/1		
ROOT CAUSE/AM	MPLIFICATION:							STEP#		
H1	MDACT							1,2,3,4 & 5		
SYSTEM LEVEL II	IVIPACT:									
PART NO.		NOMEMCLA	TURE			QTY	NSN			COST
1										1
2										1
										-
3										1
4										<u> </u>
5										
6										
FIRST CONTAC		ll l	ND CONT	ACT		RATE	PI	HONE		
TOMS	MR 2	BEAR	JEN	ır		HT 2				1
ASSESSOR / ACT J. LaROCK/ T.	T / TECH ID# I <b>LGENFRITZ QED</b>	SYSTEMS INC.		TD		TL	LOGIS	STICIAN		TSP

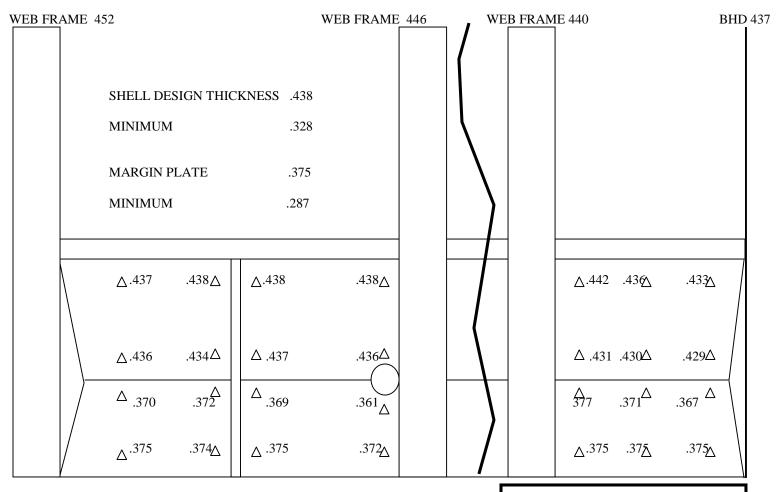
### <u>USS STUMP (DD-978)</u> <u>SMALL ARMS MAGAZINE (3-437-2-M)</u>



BILGE POCKET AFT OF BHD (437)

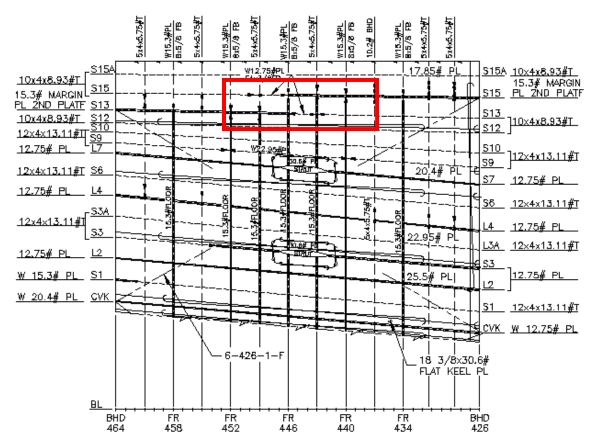


#### <u>USS STUMP (DD-978)</u> SMALL ARMS MAGAZINE (3-437-2-M)



J. LaROCK / T. ILGENFRITZ QED SYSTEMS INC. 11/28/01

#### <u>USS STUMP (DD-978)</u> SMALL ARMS MAGAZINE (3-437-2-M)



RED BOX INDICATES AREA WHERE U/T READINGS WERE TAKEN

# **MATERIAL ASSESSMENT FORM**

1												
ITEM NUMBER									SHIP	USS STUMP (I	DD-978)	
SYSTEM SHELL & SUPPORT	TINC ST	DUCTURE	110	ESWBS 11011	EI	IC A1	20	APL	V	-	RIN	N/L
EQUIPMENT NAME	TING ST	RUCTURE	110	IDENT/SERIAL		A10		ATION		SYSTEMS RK CENTER	JSN	
HULL STRUCTURE	1102XY		DDOD! EM	CTATUE	N/A	1		3-426-1-E	CATECODY	ERO2		P017
EQUIPMENT STATUS			PROBLEM						CATEGOR			EOC
1. SAT - SATISFACTOR 2. UNSAT - UNSATISFAC	CTORY		2. /	C - CORRECTED A - AWAITING PARTS	201074	2. Z - EQU	ONNEL SAF			4. D - DOWN 5. L - LIMITED		.9
3. TNA - TEST NOT AT 4. TNC - TEST NOT CO	MPLETED	DD.	4.S	<b>T - AWAITING TECH A:</b> 5 - SHIP'S FORCE NCORRECTED PROBLEMS		3. H – HA	RDWARE					.9
TYPEAVAILABILITY	TYPEAVAILABILITY WHEN TO BE STATUS					CAUSE				DEFERRAL REASON		
1. DEPOT		CCOMPLISHED . IMMEDIATEL		1. OPERATIONAL			MAL ENVIRO			1. S/F BACKLOG/OPERATIO	NAL PRIORTY	
2. IMA		. PRIOR TO NE	XT	2. NON-OPERATIONA	L	3. LACK OI	KNOWLED		rs .	LACK OF MATERIAL     NO FORMAL TRAINING C		
3. TECH ASSIST		NDERWAY		3. REDUCED CAPABIL	ITY	5. INADEO		UCTION/PROCEDU	RE	4. FORMAL TRAINING INAD EQUIPMENT		
4. SHIP'S FORCE		PIROR TO N EPLOYMENT	EXT	4. NOT APPLICABLE		7.NORMA	L WEAR AN			5. INADEQUATE SCHOOL PR 6. LACK OF FACILITIES/	CAPABILITIES	
5. SFWL		. DURING POS	Т			8. NOT AP	PLICABLE			7. NOT AUTHORIZED FOR S 8. FOR S/F OVERHAUL OR A		
	D	EPLOYMENT AVAILABILIT	Y							9. LACK OF TECHNICAL DO		
										10. OTHER OR NOT APPLIC	ABLE	
MAN HRS EXPENDED		MAN HRS	REMAINING	<u> </u>	COMPLET	TED ACTION	AKEN		S/F	MANHOURS	PRI	IORTY
2 SAFETY HAZARD:			80	0	1 MANINITE	NANCE ACTIO	N COMPLET	D. DADTE DDAWN	EDOM CUDDLY		1.1	MANDATORY
1. SERIOUS - CORRECT 2. SERIOUS - SUSPENS				CE DECLUDED	2. MAINTE	ENANCE ACTIO	N COMPLET	ED: PARTS DRAWN ED: REQUIRED PAR ED: NO PARTS REQ	TS NOT DRAWN	FROM SUPPLY	2. E	SSENTIAL
3. SERIOUS - SUSPENS 4. SAFETY ITEM - MINO	OF EQUIPM	MENT/SYSTE	VI VI	CE REQUIRED	4. CANCEL	LLED - DEFERR	AL WILL BE	REMOVED FROM C ED: 3-M CAPABILIT	SMP		E	DESTRABLE DESTRABLE
5. COMBUSTIBLE MATE	RIAL				6. NONE C	OF THE ABOVE,	DESCRIBE	IN REMARKS/DESC	RIPTION SECTIO			-
										NO. 3 GAS TURBINI		
										WEB FRAME (434		
2 <sup>ND</sup> VERTICAL	_ (5 X 4	I T-BEAN	Л) AFT (	OF BHD (426)	IS HOL	ED WHE	RE IT	MEETS FIR	ST STRIN	IGER. SHELL PLA	TE IS SEV	/ERELY
THINNED ON F	FIRST :	STRING	ER FOR	ward of wee	3 FRAM	E (434)						
RECOMMENDED			DEMOVE	- ADDDOV 0 LE (	)	E CEDINIC	-D D-D	AOF WITH	(10 V 4 V 6	OO //) OUT OUT AN	D DEDI 4.01	ADDDOV
										3.93#) CUT OUT AN M NON-DESTRUCT		
WELDS. PRIM								IILLL FLAIL	FLRIOR	W NON-DESTRUCT	IVL ILSI (	JIN
WEEDO: 1 TON	11 / 11 11	3 1 7 (II <b>1</b> 1	71112710	<u> </u>	<i>,</i>	_1010 07 (						
SSPORT C221	POC: J	. BRUCK	NER (7	57) 396-4001	EXT 21	30. TPC	C: J. L	aROCK QEI	SYSTEM	S INC. (757) 490-	-5047	
			`	,		,						
CSMP SUMMAI										TEST#		
STRINGER /	STIF	FENER	HOLE	D, SHELL TI	<u> IINNIP</u>	۱G.				MRC 1102/1		
ROOT CAUSE/AN	ИPLIFIС	ATION:								STEP#		
H1 SYSTEM LEVEL I	MPACT									1,2,3,4 & 5		
STSTEW LEVEL T	WII ACT	•										
PART NO.				NOMEMCLAT	JRE			QTY	NSN			COST
1												
2												
3												
4												
5												
6												
FIRST CONTAC	T	RA <sup>-</sup>	TE	SECONI	O CONT	ACT		RATE		HONE		
TOMS	BEARDI				HT2		I I O I VIE					
ASSESSOR / ACT				41		-	ΓD	TL	LOGI	STICIAN		TSP
J. LaROCK/T.I	LGENF	RITZ	QED	SYSTEMS IN	C.							



SHELL PLATE AND BILGE POCKET BETWEEN BHD (426) AND WEB FRAME (434)



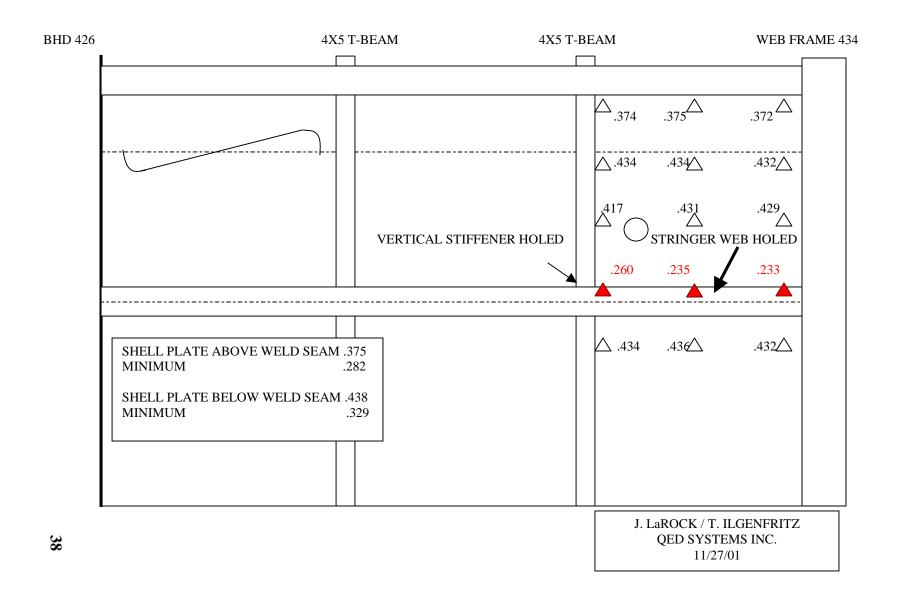
HOLE IN WEB OF FIRST STRINGER UP FROM MARGIN PLATE APPROXIMATELY 2 FT FORWARD OF WEB FRAME (434)



ARROW INDICATES DEEP WASHOUT OF WELD FORWARD OF WEB FRAME (434) U/T READINGS ARE BELOW THE 25% WASTAGE ALLOWANCE SEE DRAWING.

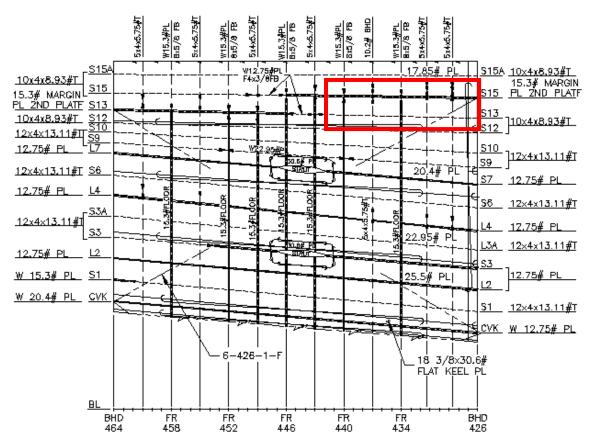


HOLE IN WEB OF (4 X 5 T-BEAM) APPROXIMATELY 3 FT FORWARD OF WEB FRAME (434) AT  $1^{\rm ST}$  STRINGER FROM MARGIN PLATE.



WEB FRAME 446 WEB FRAME 440 W.196 F. 263  $\Delta_{.375}$ Δ .375  $\Delta_{.372}$ ∆.373 ∆.375 ∆.362 △ .370 △ .371 △.365 W.210 F.267 △ .363 △.375 △ .374 Δ.431 △.434  $\Delta$ .436 △.377 △.374 △ .388 W.196 F.256 CORROSION ON SHELL AT WEB FRAME (448)

#### <u>USS STUMP (DD-978)</u> GAS TURBINE GENERATOR ROOM NO. 3 (3-426-1-E)



RED BOX INDICATES AREA WHERE U/T READINGS WERE TAKEN

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOT	COMMENTS
2½ -10-0-A	N	N	N	И	SPACE NOT ASSESSABLE GAS FREE REQUIRED
2½ -20-0-A	N	N	N	N	SPACE NOT ASSESSABLE GAS FREE REQUIRED
3-28-01-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-58-1-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-58-2-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-62-01-M	Y	Y	Y	N	SPACE 100% ASSESSSABLE
3-76-1-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-76-2-M	Y	Y	Y	И	SPACE 100% ASSESSABLE
3-94-1-Q	N	N	N	N	GAS FREE REQUIRED
3-94-2-Q	N	N	N	N	GAS FREE REQUIRED

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
3-127-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-127-2-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-138-3-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-138-6-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-146-0-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-260-01-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-346-02-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-382-2-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-382-3-L	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-394-1-L	Y	Y	Y	N	SPACE 100% ASSESSABLE

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
3-426-1-E	Y	Y	Y	STBD SHELL AND BILGE AREA	SPACE 100% ASSESSABLE
3-426-2-A	Y	Y	Y	N	SPACE 100% ASSESSABLE
3-437-2-M	Y	Y	Y	N	SPACE 100% ASSESSABLE
3½-464-0-T	Y	N	Y	N	SPACE 100% ASSESSABLE
4-28-0-T	Y	N	Y	N	SPACE 100% ASSESSABLE
4-34-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE
4-58-0-Q	Y	Y	Y	N	SPACE 100% ASSESSABLE

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
5-E-0-V	N	N	N	N	GAS FREE REQUIRED
5-34-0-Q	Y	Y	Y	ENTIRE BILGE AREA	SPACE 100% ASSESSABLE
5-94-0-C	Y	Y	Y	N	SPACE 100% ASSESSABLE
5-118-0-C	Y	Y	Y	N	SPACE 100% ASSESSABLE
5-128-0-L	Y	Y	Y	N	SPACE 100% ASSESSSABLE
5-138-0-Q	Y	Y	Y	FOUNDATIONS IN BILGE AREA, PITSWORD FR (144) PORT SIDE	SPACE 100% ASSESSABLE
5-154-3-V	N	N	N	N	GAS FREE REQUIRED
5-154-4-V	N	N	N	N	GAS FREE REQUIRED
5-174-0-E	Y	Y	Y	TANK TOP IN WAY OF ACOUSTIC TILES. LL STBD SIDE STIFFNERS FROM TANK TOP UP TO BOTTOM SIDE OF U/L GRATING.	SPACE 100% ASSESSABLE

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
5-174-0-E	Y	Y	Y	EQUIPMENT FOUNDATIONS IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE
5-220-0-E	Y	Y	Y	L/L TANK TOP. U/L UNDER A/C UNITS. EQUIPMENT FOUNDATIONS IN BILGE AREA. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE
5-260-01-E	Y	Y	Y	LOWER PORTION OF ESCAPE TRUNK BHDS. FOUNDATIONS IN BILGE AREA. ENTIRE TANK TOP IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL	SPACE 100% ASSESSABLE
5-300-0-E	Y	Y	Y	L/L PORT SIDE STIFFNERS FROM THE TANK TOP UP TO THE BOTTOM SIDE OF THE U/L GRATING. TANK TOP IN WAY OF ACOUSTIC TILES. EQUIPMENT FOUNDATIONS IN BILGE AREA. JOINT BETWEEN TANK TOP AND SHELL. LOWER PORTION OF ESCAPE TRUNK BHDS	SPACE 100% ASSESSABLE

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
6-8-0-T	N	N	N	N	UNASSESSABLE
6½-11-0-V	N	N	N	N	GAS FREE REQUIRED
6-28-0-T	Y	N	Y	N	100% ASSESSABLE
6-34-0-V	N	N	N	N	GAS FREE REQUIRED
6-201-2-V	N	N	N	N	GAS FREE REQUIRED
6-300-3-V	N	N	N	N	GAS FREE REQUIRED
6-346-0-Q	Y	Y	Y	PAINT FAILURE CORROSION AND SATURATED INSULATION IN THE PARTIALLY ENCLOSED AREAS OUTBOARD OF SHAFTS	AREA 100% ASSESSABLE
6-379-2-V	N	N	N	N	GAS FREE REQUIRED
6-464-3-Q	Y	Y	Y	SHELL AND STIFFNERS AROUND H-PAC OVBD DISCHARGE	AREA 100% ASSESSABLE

SPACE NUMBER	SPACE ASSESSABLE	LAGGING ON BHD / SHELL	SPACE INSPECTED DURING SEMAT 1	HISTORICAL HOT SPOTS	COMMENTS
6-464-4-A	Y	Y	Y	N	AREA !00% ASSESSABLE
6-476-1-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-476-2-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-482-2-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-488-3-A	Y	Y	Y	N	AREA 100% ASSESSABLE
6-506-0-E	Y	Y	Y	N	AREA 100% ASSESSABLE